This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



11-21-03

Filed Via Express Mail

Rec. No.: <u>EV 332243695 US</u> On: <u>November 20, 2003</u>

Eric Maldonado

Any fee due as a result of this paper, not covered by an enclosed check, may be charged on Deposit Acct. No.50-1290.

Attorney Docket No. FUJA 16.140 (100794-11209)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:

Seiji MIYOSHI, et al.

Serial No.:

09/318,445

Filed: Title:

May 25, 1999 DIGITAL SUBSCRIBER LINE...

Examiner:

Pankaj Kumar

Art Unit:

2631

RECEIVED

NOV 2 6 2003

Technology Center 2600

November 20, 2003

Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

SIR:

In order to comply with discretionary rules 37 CFR §§1.97 and 1.98, attached hereto is a copy of Form PTO-1449 and copies of the documents listed thereon. These documents contain information in which the Examiner may consider to be important in deciding whether to issue a patent in the instant application.

As this statement is being filed prior to issuance of a first Office Action, no fee is due.

Also attached are copies of six separate Notices of Reasons for Rejection dated March 25, 2003, April 15, 2003 & April 30, 2003, from corresponding Japanese Patent Applications. All of the documents listed in Form PTO-1449 appear in the Notices of Reasons for Rejection.

As these documents are written in a language other than English, English Language abstracts and equivalents are annexed thereto explaining their relevancy in accordance with 37 CFR §1.98(a)(3).

The present Information Disclosure Statement is being submitted in compliance with 37 §CFR 1.56 as an Examiner might consider any cited document important in deciding whether to allow the application to issue as a patent, but the citation of each document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner in the normal course of examination, will make an independent search and will determine the best prior art consistent with 37 CFR 1.104 (a), and in the course of such search will review for relevance every document cited on the attached form even if not initialed.

Early and favorable consideration is respectfully solicited.

Any fee due with this paper may be charged on Deposit Account 50-1290.

Respectfully submitted,

Thomas J. Bean Reg. No. 44,528

Katten Muchin Zavis Rosenman 575 MADISON AVENUE NEW YORK, NEW YORK 10022-2585 (212) 940-8800

DOCKET NO.: FUJA 16.140(100794-11209)

(1) leasetype a plus sign (+) → + 1449/570 ORMATION DISCLOSURE

Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

U.S. Department of Commerce

Patent and Trademark Office

Sheet 1 of 3

TEMENT BY APPLICANT

: 09/318,445 Application No. Filing Date : May 25, 1999

First Named Inventor: S. MIYOSHI

: 2631 Group Art Unit

Examiner Name : P. KUMAR 10V 2 6
Attorney Docket No. : FUJA 16.140

2600

		<u></u>	. FAILNI	DOCUMENTS		echnology C
Examiner Initials	Cite No. ¹	U.S. Patent Document	Kind Code if known ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear
		5,400,322		HUNT, et al.	03/21/1995	
		6,574,282		OKADO	06/03/2003	
		5,627,863		ASLANIS, et al.	05/06/1997	
		6,134,283		SANDS, et al.	10/17/2000	· · · · · · · · · · · · · · · · · · ·

]	FOREIGN	DOCUMENTS		
Examiner Initials	Cite No.	Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known)	Country	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YY/Y	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear
		11-313043	JP	NEC CORP	11/09/1999	Corresponds to US Patent No. 6,574,282
		10-303872	JP	TSUTSUI TAKASHI	11/13/1998	
		11-168515	JP	SUMITOMO ELECTRIC IND LTD, et al.	06/22/1999	
		10-502511	JP		03/03/1998	Corresponds to US Patent No. 5,627,863
		11-289309	JP	AMATI COMMUN CORP	10/19/1999	Corresponds to US Patent No. 6,134,283
		11355183	JP	MITSUBISHI ELECTRIC CORP	12/24/1999	
		08-172671	JP	N T T IDO TSUSHINMO KK	07/02/1996	
		08-088626	JP	FUJITSU LTD	04/02/1996	

Other Prior Art-Non Patent Literature Documents

Examiner Initials	Cite No.	appropriate), title of the item (book, magazine, jo	opriate), title of the author (in CAPITAL LETTERS), title of the article (when opriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), page(s), volume-issue number(s), publisher, country, where published, source.		
Examiner Signature			Date Considered		·

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*Unique citation designation number. *See attached Kinds of U.S. Patent Documents. *Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1* if possible. *Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take .2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it displays a valid OMB control number. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PE,	C125	
0,	Pleaset pe a plus sign	(+) → +
1 20	1449/ 27 O	U.S. Depai
1 40,	₹/	Patent and
Par	INFORMATIO	N DISCLOSURE
TENT 8	<u>PSTATEMENT I</u>	BY APPLICANT

Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

U.S. Department of Commerce

Patent and Trademark Office

DISCLOSURE

Sheet 2 of 3

: 09/318,445 Application No.

Filing Date : May 25, 1999
First Named Inventor: S. MIYOSHI 1 CEIVED

: 2631 Group Art Unit

NOV 2 6 2003 **Examiner Name** : P. KUMAR

Attorney Docket No.: FUJA 16.140

Technology, Center 2600

	U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No. ¹	U.S. Patent Document	Kind Code if known ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear		
	L .	6,009,122		CHOW	12/28/1999			
		5,991,311		LONG, et al.	11/23/1999			

]	FOREIGN	DOCUMENTS		
Examiner Initials	Cite No.	Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known)	Country	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YY/Y	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear
		2000-514991	JP		11/07/2000	Corresponds to US Patent No. 6,009,122
		61-218240	JP	TOSHIBA CORP	09/27/1986	
		2000-032096	JP	SENCHIRYUUMU TECHNOL CORP	01/28/2000	Corresponds to US Patent No. 5,991,311
		11-341153	JP	FUJITSU LTD	12/10/1999	Corresponds to WO Patent No. 99/53679
		99/53679	wo	FUJITSU LTD	10/21/1999	
		2002-519886	JP		07/02/2002	Corresponds to WO Patent No. 99/67890
		99/67890	wo	PC TEL, INC.	12/29/1999	
		11-331106	JP	NEC CORP	11/30/1999	
		11-163307	JP	SUMITOMO ELECTRIC IND LTD	05/21/1999	

Other Prior Art-Non Patent Literature Documents

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), data, page(s), volume-issue number(s), publisher, country, where published, source.			Applicant check her if English language translation attached
Examiner Signature			Date Considered		

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to

*Unique citation designation number. *See attached Kinds of U.S. Patent Documents. *Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1* if possible. *Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statemens: This form is estimated to take .2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it displays a valid OMB control number. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Ple⊈se type a plus sign (+) → + NFORMATION DISCLOSURE

Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE U.S. Department of Commerce

Application No. Filing Date

: 09/318,445

: May 25, 1992

Patent and Trademark Office

STATEMENT BY APPLICANT

Sheet 3 of 3

First Named Inventor: S. MIYOSHI Group Art Unit

: 2631

NOV 2 : P. KUMAR **Examiner Name**

Attorney Docket No.: FUJA 16.140

Technology Center 2600

	U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	U.S. Patent Document	Kind Code if known ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear		
		6,510,184		OKAMURA	01/21/2003			

	J	FOREIGN I	OCUMENTS		
Cite No. 1	Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known)	Country	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YY/Y	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear
	10-56486	JP	FUJITSU LTD	02/24/1998	
	2002-500855	JP		01/08/2002	Corresponds to WO Patent No. 99/50967
	99/50967	wo	MATSUSHITA GRAPHIC COMMUNICATION SYSTEMS, INC.	10/07/1999	
	11-261665	JP	MATSUSHITA GRAPHIC COMMUNICATION SYSTEMS, INC.	09/24/1999	Corresponds to WO Patent No. 99/35756
	99/35756	WO	MATSUSHITA GRAPHIC COMMUNICATION SYSTEMS, INC.	07/15/1999	
	2000-078105	JP	NEC CORP	03/14/2000	Corresponds to US Patent No. 6,510,184
	Cite No. 1	Cite No. 1 Foreign Patent Document Office 3 Number 4 Kind Code 5 (if known) 10-56486 2002-500855 99/50967 11-261665	Cite No. Foreign Patent Document Office Number Kind Code (if known)	Document Office ³ Number ⁴ Kind Code ⁵ (if known)	Cite No. 1 Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known) 10-56486 JP FUJITSU LTD 2002-500855 JP 99/50967 WO MATSUSHITA GRAPHIC COMMUNICATION SYSTEMS, INC. 99/35756 WO MATSUSHITA GRAPHIC COMMUNICATION SYSTEMS, INC. 99/35756 WO MATSUSHITA GRAPHIC COMMUNICATION SYSTEMS, INC. 99/35756 WO MATSUSHITA GRAPHIC COMMUNICATION SYSTEMS, INC. 07/15/1999

Other Prior Art-Non Patent Literature Documents

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTE appropriate), title of the item (book, magazine, jo data, page(s), volume-issue number(s), publisher	Applicant check her if English language translation attached		
		OKADO, et al., "A STUDY ON ADSL SYSTEI 1998 IEICE GENERAL CONFERENCE, p. 403		CROSSTALK	
Examiner Signature			Date Considered		

*Unique citation designation number. *See attached Kinds of U.S. Patent Documents. *Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1* if possible. *Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take .2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer. Patent and Trademark Office, Washington, DC 20231. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it displays a valid OMB control number. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Filing number 983331-1

Transmission number: 093779

Transmission date: March 25, 2003

1/2

Notice of Reasons for Rejection

Patent Application 2002-269683

March 14, 2003

Patent Office examiner:

Yo Takano

9647 5K00

1200

Technology Center 2600

NOV 2 6 2003

RECEIVED

Patent applicant's agent:

Date of drafting:

Juinichi Yokoyama

Applicable provisions:

Article 29-2

This application must be rejected for the following reasons. If you have an opinion concerning this, please submit an argument within 60 days from the transmission date of this notice.

Reasons

Under the provisions of article 29-2 of the Patent Law, the invention relating to the following claims of this application may not be granted a patent, because it is the same as the invention described in the specification or drawings attached to the beginning of the following patent application, which was a patent application prior to the application and was applied for and published after the application, and moreover the inventor in this application is not the same as the person who made the above invention relating to the patent application prior to the application, and at the time of this application the applicant is not the same as the applicant of said patent application.

*** (For the cited references, etc., see the Table of cited references, etc.)

Table of cited references, etc.

- 1. Patent application H10-366982 (unexamined patent 2000-78105)
- o Claims: 1-8
- Cited reference, etc.: 1
- Remarks:

Cited example 1 describes determining the SNR [signal-to-noise ratio] for the NEXT and FEXT intervals, respectively, and determining the number of bits, and because there are found to be no particular differences from the technology described in claims 1-8, the two are deemed to be substantially the same.

(Also, the above is deemed to be stated in patent application H10-46535 [1998], on which cited example 1 is based.)

[illegible] 28 March 2003 Handling deadline 16 May 2003

Record of results of search of prior technical literature

• Field searched:

IPC version 7

H04J 11/00

• Prior art references

This record of the results of a search of the prior technical literature does not constitute grounds for rejection.

Direct any inquiries concerning the content of this notice of reasons for rejection, or any request for a meeting, to the following contact person.

Yo Takano, Digital Communications Patent Examination Department 4

TEL: 03(3581)1101, extension 3555

FAX: 03(3501)0699